



3767

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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

E. Hester Jones
Superintendent.

State: *Washington*

DESCRIPTIVE REPORT.

Sheet No. *3767*

LOCALITY:

*Port Townsend
and Oak Bay*

1915

CHIEF OF PARTY:

H. C. Benson

11-4645

3767

Hyd. B 76 7

Report to accompany Hydrographic Sheet covering approaches to the canal connecting Port Townsend Bay with Oak Bay.

The hydrographic survey was made on both sides of the canal on June 1st and 2nd, 1915.

The cutter and steam launch were used.

A 50 meter system of sounding lines was run parallel to the axis of the canal, from just inside each entrance out to approximately the 10 fathom curve, and this system was crossed by another system of lines at right angles and about 100 meters apart.

The ordinary 10 pound lead and methods ~~were~~ used.

The contours of the bottom gradually fall away to the 10 fathom curve and no dangers were found.

At the time of the survey no boat sheet was in use, the work being plotted later on a boat and smooth sheet transferred from the Plane table sheet.

The general character of the bottom was found to be soft blue mud with sand and gravel nearer the shore.

As the canal was not completed a run of 15 miles was necessary to carry on the work on the Oak Bay side.

The Army Engineer's tide staff in the middle of the canal was used, and was connected with their Bench Mark.

This bench mark is shown on their record as B.M. and triangulation station "Land", elevation 8.44 feet above M.L.L.W. This corresponds to 23.38 feet on staff therefore Plane of References equals 12.94 feet on staff.

The tide reducers are entered in the sounding records and soundings are reduced to tenths of feet.

Paul Herberger

Mate, Coast & Geodetic Survey.

Approved

H. B. Benson

Asst Crs.

Statistics.

Hydrographic sheet

Approaches to canal

between

Port Townsend Bay and Oak Bay.

	Miles of sounding lines	Number of soundings	Number of positions
Cutter a day	6.0	317	78
" b "	4.5	158	45
Launch a "	8.2	408	98
	<u>18.7</u>	<u>883</u>	<u>221</u>

VEC
Oct.1,1915

L.P.S.

HYDROGRAPHIC SHEET 3767.

Port Townsend and Oak Bay, Washington, by Assistant
H. C. Denson in 1915.

TIDES.

	Canal ft.
2 feet below lower low water, or plane of reference on staff	12.9
Lowest tide observed " "	10.4
Highest " " " "	26.3
Mean range of tide	5.1

48 02 122 44

Madrona
Point
Cone